

AMENDED CLAIMS

[Received by the International Bureau on 26 January 2004 (26.01.04) :
original claim 1 is amended; original claim 3 is cancelled; the remaining claims are unchanged and
renumbered. (6 pages)]

1. A hygiene apparatus (1) adapted for use within the
space within a vehicle (2) comprising a collapsible
flexible membrane (3) substantially impermeable to air,
the flexible membrane (3) being adapted in use to enclose
a portion of the space within the vehicle (2) and to
separate the said portion of space enclosed by the
flexible membrane (3) from a portion of the space within
the vehicle provided outside the flexible membrane (3),
characterised in that means (11) is provided to maintain
an air pressure difference between the portion of the
space enclosed by the flexible membrane (3) and the
portion of the space within the vehicle but outside the
flexible membrane (3).

2. A hygiene apparatus as claimed in claim 1,
characterised in that the flexible membrane (3) is of
bag-form

3. A hygiene apparatus as claimed in claim 1 or 2,
characterised in that the air pressure within the portion
of the space enclosed by the flexible membrane (3) is
maintained above atmospheric pressure.

4. A hygiene apparatus as claimed in claim 1 or 2,
characterised in that the air pressure within the portion
of the space enclosed by the flexible membrane (3) is
maintained below atmospheric pressure.

5. A hygiene apparatus as claimed in any preceding
claim, characterised in that the means to maintain an air
pressure difference is an air pumping device (11).

6. A hygiene apparatus as claimed in claim 5,
characterised in the air pumping device (11) is adapted
to pump air from a region exterior of the vehicle into
the portion of the space enclosed by the flexible
membrane (3).

7. A hygiene apparatus as claimed in claim 5,
characterised in the air pumping device (11) is adapted
to pump air from the portion of the space within the
vehicle but outside the flexible membrane (3) into the
portion of the space enclosed by the flexible membrane
(3).

8. A hygiene apparatus as claimed in claim 5, 6 or 7,
characterised in that the air pumping device is adapted
to pump air from the portion of the space enclosed by the
flexible membrane (3) to a region exterior of the
vehicle.

9. A hygiene apparatus as claimed in any preceding
claim, characterised in that the flexible membrane (3) is
provided with attachment means (5) for securing directly
to an inner surface of the vehicle.

10. A hygiene apparatus as claimed in any one of claims
1 to 8, characterised in that the flexible membrane (3)
is provided with attachment means (5) for securing
indirectly to an inner surface of the vehicle.

11. A hygiene apparatus as claimed in claim 9 or 10,
characterised in that the attachment means (5) are
selected from straps, hook and loop material, hook and
eye fasteners, magnets and combinations thereof.

12. A hygiene apparatus as claimed in any preceding claim, characterised in that the flexible membrane (3) is provided with supporting members (13).

5 13. A hygiene apparatus as claimed in claim 12, characterised in that the supporting members (13) are in the form of inflatable tubular members.

10 14. A hygiene apparatus as claimed in claim 12 or 13, characterised in that the supporting members (13) are in the form of collapsible supporting rods.

15 15. A hygiene apparatus as claimed in any preceding claim, characterised in that the flexible membrane (3) is opaque.

20 16. A hygiene apparatus as claimed in any one of claims 1 to 15, characterised in that the flexible membrane (3) is translucent.

17. A hygiene apparatus as claimed in any preceding claim, characterised in that lighting means (9) is provided in the flexible membrane (3).

25 18. A hygiene apparatus as claimed in claim 17, characterised in that the lighting means is in the form of at least one panel (9) selected from translucent and transparent material.

30 19. A hygiene apparatus as claimed in any preceding claim, characterised in that lighting means is provided in the form of a light source provided within the space enclosed by the flexible membrane (3).

20. A hygiene apparatus as claimed in claim 19, characterised in that the light source is a battery-powered lamp.

5 21. A hygiene apparatus as claimed in any preceding claim, characterised in that the flexible membrane (3) comprises a plastics material of sheet or fibre form.

10 22. A hygiene apparatus as claimed in any preceding claim, characterised in that the flexible membrane (3) comprises natural fibres.

15 23. A hygiene apparatus as claimed in any preceding claim, characterised in that the flexible membrane (3) is provided with a resealable opening (7) suitable for a user to enter and exit the space enclosed by the flexible membrane (3).

20 24. A hygiene apparatus as claimed in any preceding claim, characterised in that the apparatus includes a storage unit (21) adapted to be located within the vehicle for containing the flexible membrane (3) when the flexible membrane (3) is not in use.

25 25. A hygiene apparatus as claimed in any preceding claim, characterised in that sanitation apparatus is provided in the space enclosed by the flexible membrane (3).

30 26. A hygiene apparatus as claimed in claim 25, characterised in that the sanitation apparatus is a toilet.

35 27. A hygiene apparatus as claimed in any preceding claim, characterised in that means is provided to prevent

the transmission of undesirable noise from the space enclosed by the flexible membrane (3) to a region outside the flexible membrane (3).

5 28. A hygiene apparatus as claimed in claim 27, characterised in that the means to prevent the transmission of undesirable noise comprises an acoustically impermeable material forming the flexible membrane (3).

10 29. A hygiene apparatus as claimed in claim 27, characterised in that the means to prevent the transmission of undesirable noise comprises a noise generator provided within the space enclosed by the flexible membrane (3) to mask the undesirable noise.

15 30. A hygiene apparatus as claimed in any preceding claim, characterised in that means is provided to prevent the transmission of undesirable odours from the space enclosed by the flexible membrane (3) to a region outside the flexible membrane (3).

20 31. A hygiene apparatus as claimed in claim 30, characterised in that the means to prevent the transmission of undesirable odours comprises an odour absorber.

25 32. A hygiene apparatus as claimed in claim 31, characterised in that the odour absorber is a chemical scrubber.

30 33. A hygiene apparatus as claimed in claim 30, characterised in that the means to prevent the transmission of undesirable odours comprises a desirable

odour generator provided within the space enclosed by the flexible membrane (3) to mask the undesirable odour.

34. A hygiene apparatus as claimed in any preceding claim, characterised in that means is provided to enable a user to rupture the flexible membrane in the event of an emergency to permit the user to exit the space enclosed by the flexible membrane (3).

35. A hygiene apparatus as claimed in claim 34, characterised in that the means to rupture the flexible membrane comprises an openable seam provided in the flexible membrane.

36. A hygiene apparatus as claimed in claim 34, characterised in that the means to rupture the flexible membrane comprises a detachable panel provided in the flexible membrane.

37. A vehicle incorporating a hygiene apparatus as claimed in any preceding claim.